

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re: Application of:
Nida Abdul-Ghani Nassief**

Serial No.: 09/944,564

Filed: September 4, 2001

Group Art Unit: 1623

Examiner: Patrick T. Lewis

Our Ref.: 278455.100

**ASTHMA/ALLERGY THERAPY
THAT TARGETS T-LYMPHOCYTES
AND/OR EOSINOPHILS**

DECLARATION UNDER 37 CFR 1.132

I, David P. Skoner, residing in Pittsburgh, Pennsylvania, do declare as follows:

1. I received a Bachelor of Science degree from Juniata College, Huntingdon, PA in 1976 and an M.D. from Temple University, Philadelphia, PA in 1980.

2. I currently hold the following positions:

2005-Present: Professor of Pediatrics, Department of Pediatrics, Drexel University College of Medicine;

2003-Present: Vice Chair, Clinical Research, Department of Pediatrics, Allegheny General Hospital, Pittsburgh, PA

2003-Present: Director, Pediatric Allergy/Asthma/Immunology Allegheny General Hospital, Pittsburgh, PA.

3. I am certified by the American Board of Pediatrics and the American Board of Allergy and Immunology.

4. I serve on the following professional committees:

Editorial Board: American Journal of Rhinology (1994-1999)
Current Opinion in Allergy and Clinical Immunology (2000-Present)
Current Respiratory Medicine Reviews (2005)
Pediatric Asthma, Allergy & Immunology (2005)

Reviewer: Journal of Allergy and Clinical Immunology, Journal of Pediatrics, Journal of Laboratory and Clinical Medicine, Annals of Allergy, Journal of Infectious Diseases, American Review of Respiratory and Critical Care Medicine, International Archives of Allergy and Immunology, Annals of Otolaryngology, Rhinology & Laryngology.

5. My curriculum vitae is attached in the Appendix and further describes my professional experience and publications.

6. I was introduced to Dr. Nida Nassief when her project for the Executive Entrepreneurship Certificate Program at Carnegie Mellon's Donald H. Jones Center for Entrepreneurship, hosted by Carnegie Mellon University – Qatar Campus, was awarded first prize, and she was invited to Pittsburgh to meet specialists in our field.


7. I am familiar with the above-captioned patent application and have read the Office Action and the references cited in the office action.

8. It is my well considered opinion that the definition of asthma was well known at the time of this invention, as set forth in the NIH guidelines provided in connection with the response to the office action.

9. It is my well considered opinion that, at the time of invention, glycoprophosphate would not be considered an obvious treatment for allergy or asthma. Asthma is a chronic inflammatory airways disease and is not a viral illness per se. Acute viral infections can trigger a loss of asthma control or an asthma exacerbation (as is the case with a number of other chronic illnesses), but, again, the underlying asthma is not considered a viral illness or even an infectious illness for that matter. Anti-viral

drugs are not listed as treatments for asthma in national and international guidelines. Therefore, the references cited by the Examiner would not lead one skilled in the art to select glycoposphopeptical for treatment of asthma, extrinsic or intrinsic, nor for the treatment of allergy, including perennial rhinitis, allergic conjunctivitis, chronic urticaria, atopic dermatitis or laryngeal oedema.

I am aware that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of this application or any patent issuing thereon. All statements made herein based on my own knowledge are true and all statements made on information and belief are believed to be true.



David P. Skoner, M.D.

4/16/07

Date

APPENDIX

DAVID P. SKONER
Allegheny General Hospital

NAME: David Peter Skoner	BIRTH PLACE: Johnstown, PA
HOME ADDRESS: 10 Hillcrest Road Pittsburgh, PA 15221	BIRTH DATE: March 10, 1954
HOME PHONE: (412) 247-1926	CITIZENSHIP: United States
SOCIAL SECURITY NUMBER: Upon Request	
BUSINESS ADDRESS:	Allegheny General Hospital 320 East North Ave. Section of Allergy/Asthma/Immunology Pittsburgh, PA 15212
BUSINESS PHONE: (412) 359-6640	BUSINESS FAX: (412) 359-6641

EDUCATION AND TRAINING

UNDERGRADUATE:

1972-1976	Juniata College Huntingdon, PA	BS - 1976, Pre-Medicine
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GRADUATE:

1976-1980	Temple University Philadelphia, PA	MD - 1980, Medicine
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POST-GRADUATE:

1980-1983	Children's Hospital Cincinnati, OH	William K. Schubert, MD General Pediatric Residency
1983-1985	Children's Hospital Pittsburgh, PA	Philip Fireman, MD Allergy/Immunology, Fellowship

EMPLOYMENT HISTORY

ACADEMIC

2005-Present	Professor of Pediatrics Department of Pediatrics Drexel University College of Medicine
2003-Present	Vice Chair, Clinical Research Department of Pediatrics Allegheny General Hospital
2003-Present	Director, Pediatric Allergy/Asthma/Immunology Allegheny General Hospital
1997-2002	Children's Hospital of Pittsburgh Chief, Section of Allergy/Immunology
1997-2002	Children's Hospital of Pittsburgh Director, Allergy and Immunology Training Program
1993-1997	Children's Hospital of Pittsburgh Associate Director Allergy and Immunology Training Program
1991-2002	Associate Professor of Pediatrics and Otolaryngology University of Pittsburgh School of Medicine Pittsburgh, PA
1986-1989	Children's Hospital Chief, Laboratory Services Division of Allergy/Immunology Pittsburgh, PA
1985-1987	Clinical Research Center Clinical Associate Physician Children's Hospital Pittsburgh, PA
1985-1988	Director, Asthma Clinic Children's Hospital Pittsburgh, PA
1985-1991	University of Pittsburgh School of Medicine Assistant Professor of Pediatrics Pittsburgh, PA

NON-ACADEMIC

February, 1998 - Present

American Academy of Allergy Asthma & Immunology
Vice Chair, Fund Interest Section Research Projects

CERTIFICATION AND LICENSURE

SPECIALTY CERTIFICATION:

1985

American Board of Pediatrics

1986

American Board of Allergy and Immunology

2001

Research Practice Fundamentals/Module 1-Research Integrity

MEDICAL LICENSURE:

1983

Pennsylvania State Board of Medical Education
and Licensure - #MD-029155-E

PROFESSIONAL COMMITTEES AND ADMINISTRATIVE SERVICE

Editorial Board:

American Journal of Rhinology (1994-1999)
Current Opinion in Allergy and Clinical Immunology (2000-Present)
Current Respiratory Medicine Reviews (2005)
Pediatric Asthma, Allergy & Immunology (2005)

Reviewer:

Journal of Allergy and Clinical Immunology, Journal of Pediatrics, Journal of Laboratory and Clinical Medicine, Annals of Allergy, Journal of Infectious Diseases, American Review of Respiratory and Critical Care Medicine, International Archives of Allergy and Immunology, Annals of Otolaryngology, Rhinology & Laryngology.

Committee Chairmanship:

1994-1996

Rhinitis Committee - American Academy of Allergy Asthma and Immunology

Committee Membership:

1989-1992

Animal Research and Care Committee, Children's Hospital

1989-1991

Clinical Laboratory Use Committee - Children's Hospital

1991-1998

Human Rights Committee, Children's Hospital

1991-Present

Resident Education Committee - Children's Hospital

1993-1994

Rhinitis Committee - American Academy of Allergy Asthma and Immunology

1994-Present

Committee to Fund Interest Section Research Projects - American Academy of Allergy and Immunology

1996-Present

Post-graduate Education Committee - Academy of Allergy and Immunology

1996-Present

Rhinitis Committee - American Academy of Allergy Asthma and Immunology

1999-2003	Grant Review Committee – American Academy of Allergy Asthma and Immunology
2002	Clinical Fellowship Award Review Committee – American Academy of Allergy, Asthma and Immunology
2003-2004	ARRD Vice Representative, Workshops Subcommittee-American Academy of Allergy Asthma and Immunology
2004 -2005	Pediatric Committee-American College of Allergy, Asthma & Immunology
2004-2005	Rhinitis/Sinusitis Committee- American College of Allergy, Asthma & Immunology
2004-2005	Rhinitis, Sinusitis & Ocular Diseases Interest Section, Workshops Representative-American Academy of Allergy Asthma and Immunology
2004-2005	RSOD Representative, Workshops Subcommittee-American Academy of Allergy Asthma and Immunology
2008-2009	Infections and Asthma Task Force, Interest Section Committee- American Academy of Allergy Asthma and Immunology

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

1985	Pittsburgh Allergy Society
1989	Pennsylvania Thoracic Society
1989	Pennsylvania Allergy Association
1989	Pittsburgh Pediatric Society
1993	Society for Pediatric Research
1993	American Academy of Allergy and Immunology
1993	American Academy of Pediatrics (Fellow; Member, Section: Allergy/Immunology)
1994	The Association for Research in Otolaryngology
1997-1999	President, Pittsburgh Allergy Society
1999	American College of Allergy, Asthma and Immunology
2000-2001	Board of Regents, PA Allergy and Asthma Association
2001	Board Member and Section Editor, <i>Current Opinion</i>
2004	Governing Board Member, Western Pennsylvania Asthma Consortium (WestPAC)
2006	American Pediatric Society

HONORS AND AWARDS

1983	Ross Award for Excellence in Ambulatory Pediatrics Children's Hospital, Cincinnati, Ohio
1984	Travel Grant - American Academy of Pediatrics
1985	Young Investigator Award for Excellence in Research Completed in Allergy and Immunology - American Academy of Allergy and Immunology
1985	Parke-Davis Award for Distinguished Achievement as a Fellow in Allergy

- and Immunology - American College of Allergists
- 1985 Geigy Fellowship Award for Excellence in Allergy and Immunology Research
- 1985 Travel Grant - Aspen Allergy Conference
- 1985 Travel Grant - International Congress of Allergology and Clinical Immunology
- 1985-87 Clinical Associate Physician Award, National Institutes of Health,
 General Clinical Research Center
- 1987 Travel Grant - Aspen Allergy Conference
- 1992 Joseph E. Ghory Memorial Lectureship, Ohio Society of Allergy and Immunology
- 2002 Kingston's National Registry of Who's WhoTM
- 2003 "America's Top Doctors" recognition, Castle Connolly Medical Ltd.
- 2004 Nominee "2004 Health Care Hero Awards", Innovation & Research, Sponsors:
 Pittsburgh Business Times, Hilton Pittsburgh, MedTech
- 2004 "America's Top Doctors" recognition, Castle Connolly Medical Ltd.
- 2005 "Top Doctors", *Pittsburgh* magazine
- 2005 "America's Top Doctors" recognition, Castle Connolly Medical Ltd.
- 2006 "America's Top Doctors" recognition, Castle Connolly Medical Ltd.
- 2007 Panel member of the Best Pharmaceuticals for Children Act (BPCA) Pediatric
 Asthma Therapeutics Group convened by the National Institute of Child Health and
 Human Development.
- 2007 "America's Top Doctors" recognition, Castle Connolly Medical Ltd.

PUBLICATIONS

****REFEREED ARTICLES:**

1. **Skoner DP**, Doyle WJ, Chamovitz A, Fireman P: Eustachian tube obstruction (ETO) after intranasal challenge with house dust mite. *Arch Otolaryngol* 112:840-2, 1986.
2. **Skoner DP**, Fischer T, Gormley C, Martinez R, Bobbitt R, Hollroyde J: Pediatric predictive index for hospitalization in acute asthma. *Ann Emerg Med* 16:25, 1987.
3. **Skoner D**, Doyle WJ, Fireman P: Eustachian tube obstruction (ETO) after histamine nasal provocation - A double blind dose response study. *J Allergy Clin Immunol* 79:27-31, 1987.
4. Fireman P, **Skoner DP**, Tanner EP, Doyle WJ: A primate model for the evaluation of antihistamines. *Ann Allergy* 59:9-12, 1987.
5. **Skoner DP**, Page R, Asman B, Gillen L, Fireman P: Plasma elevations of histamine and a prostaglandin metabolite in acute asthma. *Am Rev Respir Dis* 137:1009-1014, 1988.
6. Doyle WJ, McBride TP, **Skoner DP**, Maddern BR, Gwaltney JM, Uhrin M: A double-blind, placebo-controlled clinical trial of the effect of chlorpheniramine on the response of the nasal airway, middle ear and eustachian tube to provocative rhinovirus challenge. *Pediatr Infect Dis J* 7:229, 1988.
7. Page R, Friday G, Stillwagon P, **Skoner D**, Caliguiri L, Fireman P: Asthma and selective immunoglobulin subclass deficiency: Improvement of asthma after immunoglobulin replacement therapy. *J Pediatr* 112:127-131, 1988.
8. **Skoner DP**, Stillwagon PK, Casselbrandt ML, Tanner ET, Doyle WJ, Fireman P: Inflammatory mediators in chronic otitis media with effusion (OME). *Arch Otolaryngol Head Neck Surg* 114:1131-1133, 1988.
9. **Skoner DP**, Doyle WJ, Boehm S, Fireman P: Late phase eustachian tube and nasal allergic responses associated with inflammatory mediator elaboration. *Am J Rhinol* 2:155-161, 1988.

10. **Skoner DP**, Doyle WJ, Boehm S, Fireman P: Priming of the nose and eustachian tube during natural pollen exposure. *Am J Rhinol* 3(2):53-57, 1989.
11. **Skoner DP**, Fireman P, Davis H, Wall R, Caliguiri L: Increases in plasma concentrations of a prostaglandin metabolite in acute airway obstruction. *Arch Dis Child* 64:1112-1117, 1989.
12. **Skoner DP**, Gentile D, Evans R: Decreased activity of the platelet Na⁺, K⁺ adenosine triphosphatase enzyme (ATPase) in allergic subjects. *J Lab Clin Med* 115:535-40, 1990.
13. Tanner EP, **Skoner DP**, Doyle WJ, Fireman P: Intranasal challenge of cynomolgus monkeys with ascaris, ragweed, bradykinin and histamine. *Am J Rhinol* 4:33-36, 1990.
14. **Skoner DP**, Hodgson MJ, Doyle WJ: Laser printer rhinitis (refereed letter to editor). *N Engl J Med* 322:1323, 1990.
15. **Skoner DP**, Fireman P, Caliguiri L, Davis H: Plasma elevations of histamine and a prostaglandin metabolite in acute bronchitis. *Am Rev Respir Dis* 142:359-364, 1990.
16. Doyle WJ, Boehm S, **Skoner DP**: Physiologic responses to intranasal dose-response challenges with histamine, methacholine, bradykinin and prostaglandin in adult volunteers with and without nasal allergy. *J Allergy Clin Immunol* 86:924-35, 1990.
17. **Skoner DP**, Lee L, Doyle WJ, Boehm S, Fireman P: Nasal physiology and inflammatory mediators during natural pollen exposure. *Ann Allergy* 65:206-210, 1990.
18. **Skoner DP**, Gentile D, Evans R: A circulating inhibitor of the platelet Na⁺,K⁺ adenosine triphosphatase (ATPase) enzyme in allergy. *J Allergy Clin Immunol* 87:476-82, 1991.
19. **Skoner DP**, Doyle WJ, Boehm S, Fireman P: Effect of terfenadine on nasal, eustachian tube and pulmonary function after provocative intranasal histamine challenge. *Ann Allergy* 67:619-624, 1991.
20. Doyle WJ, **Skoner DP**, Fireman P, Seroky JT, Green I, Ruben F, Kardatzke DR, Gwaltney JM: Rhinovirus 39 infection in allergic and non-allergic subjects. *J Allergy Clin Immunol* 89:968-78, 1992.
21. **Skoner DP**: Wiskott-Aldrich Syndrome presenting as possible allergy - unusual presentation for an unusual disease. *Pediatr Asthma Allergy and Immunol* 6(3):175-181, 1992.
22. Chande VT, **Skoner DP**: A trial of nebulized magnesium sulfate to reverse bronchospasm in asthmatic patients. *Ann Emerg Med* 21:1111-1115, 1992
23. **Skoner DP**, Whiteside TL, Wilson JW, Doyle WJ, Herberman RB, Fireman P: Effect of rhinovirus 39 (RV-39) infection on cellular immune parameters in allergic and non-allergic subjects. *J Allergy Clin Immunol* 92:732-743, 1993.
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25. Gentile DA, Brown C, **Skoner DP**: In vitro modulation of platelet sodium, potassium adenosine triphosphatase (Na⁺,K⁺ ATPase) enzyme activity by anti-allergy drugs. *J Lab Clin Med* 122:85-91, 1993.
26. Doyle WJ, **Skoner DP**, Seroky J, Fireman P: Effect of experimental influenza infection on nasal response to histamine challenge in allergic and non-allergic subjects. *Am J Rhinol* 7(5):227-235, 1993.
27. Gentile D, **Skoner DP**: A circulating inhibitor of the platelet Na⁺,K⁺ adenosine triphosphatase enzyme (ATPase) in patients with allergic diseases. *Pediatr Asthma Allergy and Immunol* 7(4):217-226, 1993.
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31. Doyle WJ, **Skoner DP**, Seroky JT, Fireman P, Gwaltney JM: Effect of experimental rhinovirus 39 infection on the nasal response to histamine and cold air challenges in allergic and non-allergic subjects. *J Allergy Clin Immunol* 93:534-542, 1994.
32. Buchman CA, Doyle WJ, **Skoner D**, Fireman P, Gwaltney JM: Otolgic manifestations of experimental rhinovirus infection. *Laryngoscope* 104:1295-1299, 1994.
33. Vayonin AG, Seroky JT, Doyle WJ, **Skoner DP**, Fireman P: Intranasal histamine, methacholine and bradykinin challenge in children with and without allergy. *Amer J Rhinol* 9(1):1-7, 1995.
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35. **Skoner DP, Doyle WJ, Tanner EP, Kiss J, Fireman P:** Effect of rhinovirus 39 (RV-39) infection on immune and inflammatory parameters in allergic and non-allergic subjects. *Clin Exper Allergy* 25:561-67, 1995.
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37. Cohen S, Doyle WJ, **Skoner DP**, Fireman P, Gwaltney JM, Newsom JT: State and trait negative affect as predictors of objective and subjective symptoms of respiratory viral infections. *J Personality Social Psychol* 68:159-169, 1995.
38. Friday GA, Bellingher MF, **Skoner DP**, Kinnunen D, Joos M, Wiltse G, Rueter M: Latex hypersensitivity in children with spina bifida. *Pediatr Asthma Allergy and Immunol* 9(4):189-192, 1995.
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41. Doyle WJ, **Skoner DP**, White M, Hayden F, Kaplan AP, Kaliner MA, Shibayama Y, Fireman P: Pattern of nasal secretions during experimental influenza virus infection. *Rhinology* 34:2-8, 1996. 1996.
42. Gentile DA, Braun E, **Skoner DP:** Modulation of histamine release by sodium, potassium adenosine triphosphatase enzyme inhibition. *Annal Allergy Asthma Immunol* 77:320-326, 1996.
43. **Skoner DP**, Whiteside TL, Wilson JW, Doyle WJ, Herberman RB, Fireman P: Effect of influenza A (FLU) virus infection on natural and adaptive cellular immunity. *Clin Immunol Immunopathol* 79(3):294-302, 1996.
44. Gentile DA, **Skoner DP:** A role for the sodium, potassium adenosine triphosphatase (Na⁺,K⁺ ATPase) enzyme in degranulation of rat basophilic leukemia cells. *Clin Exper Allergy* 26:1449-1460, 1996.
45. **Skoner DP**, Doyle WJ, Seroky J, Fireman P: Lower airway responses to influenza A virus in healthy allergic and non-allergic subjects. *Amer J Resp Crit Care Med* 154:661-664, 1996.
46. **Skoner DP**, Doyle WJ, Seroky J, Van Deusen MA, Fireman P: Lower airway responses to rhinovirus 39 in healthy allergic and non-allergic subjects. *Eur Respir J* 9:1402-1409, 1996.
47. Alper CM, Doyle WJ, **Skoner DP**, Buchman CA, Seroky JT, Gwaltney JM, Cohen SA: Pre-challenge antibodies moderate infection rate, and signs and symptoms in adults experimentally challenged with rhinovirus type 39. *Laryngoscope* 106:1298-1305, 1996.
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51. **Skoner DP**, Boltansky H, Kobayashi RH, Pearlman DS, Shapiro G, Harrison JE, Trochermann LM, Lorber RR: Extended-release albuterol in the treatment of 6- to 12-year-old asthmatic children. *Annals of Allergy, Asthma and Immunology* 76/5:462-468, 1996.
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53. Cohen S, Doyle WJ, **Skoner DP**, Rabin BS, Gwaltney JM. Social ties and susceptibility to the common cold. *JAMA* 277:1940-1944, 1997
54. Reyes J, Todo S, Green M, Yunis E, **Skoner D**, Kocoshis S, Furukawa H, Abu-Elmagd K, Tzakis A, Bueno J, Starzl TE: Graft-versus-host disease after liver and small bowel transplantation in a child. *Transplantation* 11:345-348, 1997.
55. Gentile DA, **Skoner DP:** The relationship between airway hyperreactivity (AHR) and Na,K adenosine triphosphatase (ATPase) enzyme inhibition. *J Allergy Clin Immunol* 99:367-73, 1997.
56. Van Deusen MA, Gentile DA, **Skoner DP:** Inhibition of the sodium, potassium adenosine triphosphatase enzyme in peripheral blood mononuclear cells of allergic rhinitis subjects. *Annal Allergy Asthma Immunol* 78:259-64, 1997.
57. Angelini BA, Van Deusen MA, Doyle WJ, Seroky J, Cohen S, **Skoner DP.** Lower airway responses to rhinovirus-Hanks in healthy subjects with and without allergy. *J Allergy Clin Immunol* 99(5):618-619, 1997.
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61. Gentile DA, Doyle W, Whiteside T, Fireman P, Hayden FG, Doyle W, **Skoner DP**. Increased interleukin-6 levels in nasal lavages following experimental influenza A viral infection. *Clin Diag Lab Immunol* 5:604- 608, 1998.
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64. Cohen S, Frank E, Doyle JW, **Skoner DP**, Rabin BS, Gwaltney Jr., JM: Types of Stressors That Increase Susceptibility to the Common Cold in Healthy Adults. *Health Psychology*, 17(3):214-223, 1998 .
65. Doyle WJ, **Skoner DP**, Patel A, Hayden FG. Effect of rimantadine on induced specific serum haemagglutination-inhibiting antibody and nasal IgA titres after experimental exposure of adults to influenza A virus. *Antiviral Therapy* 3:19-23, 1998.
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70. **Skoner DP**, Gentile DA, Patel A, Doyle JW: Evidence for cytokine mediation of disease expression in adults experimentally infected with influenza A virus. *The Journal of Infectious Diseases* 180:10-14, 1999
71. Gentile DA, Patel A, Ollia C, Fireman P, Zeevi A, Doyle JW, **Skoner DP**: Diminished IL-10 production in subjects with allergy after infection with influenza A virus. *J Allergy Clin Immunol* 1999;103:1045-8.
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75. Doyle WJ, Alper CM, Buchman CA, Moody SA, **Skoner DP**, Cohen S. Illness and otological changes during upper respiratory virus infection. *Laryngoscope* 1999;109:324-8.
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 187. LaForce C, **Skoner D**. Resolution of symptoms in patients with acute respiratory infections receiving antibiotic therapy and Mucinex® D. *Annals of Allergy, Asthma & Immunol* 2008;100(Jan):A83.

EDUCATIONAL ACTIVITIES

TEACHING:

Lecture to pediatric housestaff medical students, nurse practitioner students and physician groups.
Supervision of Allergy/Immunology Fellows-In-Training.
Pediatric Ward attending.
Supervision of Medical Student Summer Research Projects - 1986-1994.
Preceptor - Summer Premedical Academic Enrichment Program-1990
Allergy/Immunology Fellow Research Projects
Allergy/Asthma Grand Rounds, Developed, lecture to housestaff, medical students, nurse practitioner and physician groups, 2003 to present

SUPPORT/RESEARCH

FUNDED GRANTS

United Way	Inflammatory Mediators in Acute Asthma and Bronchiolitis in Children	P.I., 10%	1985-1987
American Lung Association of PA.	Inflammatory Mediators in Acute Bronchiolitis in Children	P.I., 5%	1985-1986
3MOIRR084 NIH	Inflammatory Mediators in Clinical Acute Bronchitis and Asthma in Children (GCRC)	P.I., 80%	1985-1987
American Lung Association of PA	Inflammatory Mediators in Diseases Associated with Airway Hyperreactivity	P.I., 5%	1987-1989
American Lung Association of PA	Biochemical Mechanisms of Airway Hyperreactivity	P.I., 50%	1989-1991
Richardson-Vicks, USA	An Evaluation of the Comparative Efficacy of Dextromethorphan Hbr and an Aqueous Placebo Control in Children with Acute Coughs due to Colds	P.I., 2%	1990-1991
Schering-Plough Research Institute	Asthma Cough Study-Model Development	P.I., 4%	1990-1991
AI-19262 NIH	Immune Mechanisms of Middle Ear Disease	Co-P.I., 15%	1990-1999
Richardson-Vicks, USA	Temporal Pattern of Coughing in Adults with Upper Respiratory Tract Infections	Co-P.I., 2%	1991-1992
Howard Hughes Medical Institute	Research Training Fellowship for Medical Students: Na,K ATPase in Signal Transduction of Inflammatory Cells	Co-P.I., 2%	1991-1992
Schering-Plough Research Institute	A Study Comparing the Efficacy and Tolerability of Proventil Repetabs Tablets with Placebo in Children with Bronchial Asthma	P.I., 2%	1992-1993
Richardson-Vicks, USA	An Evaluation of the Comparative Efficacy of Dextromethorphan Hbr and an Aqueous Placebo Control Using Telemetry-Based Cough Recording in Adults with Acute Cough Due to Colds	Co-P.I., 2%	1992-1993
Boehringer Ingelheim	A Double-Blind, Vehicle-Controlled Pharmacokinetic Study to Determine the absorption Characteristics of Ipratropium (Atrovent) Nasal Spray 0.06% Vs Vehicle Administered in Volunteers Infected With Rhinovirus 39	Co-P.I., 2%	1992-1993
UCB Pharma	Effect of Topical UCB 28754 on Rhinitis	Co-P.I., 2%	1992-1993

Provoked by Intranasal Histamine in the Monkey

IRO1 MH50429-01	Stress and Susceptibility to Infectious Disease	Co-P.I., 10%	1993-1996
Immuno Research	Clinical C1-Inhibitor Prophylaxis in Hereditary Angioedema	Co-P.I., 2%	1993-1994
TAP Pharm	Safety and Efficacy of Abbott 73001 in Patients with Moderate Asthma	P.I., 2%	1993-1994
Schering-Plough Research Institute	A Study of the Effects of Intranasal Steroids(Beclomethasone Dipropionate) on the Growth and HPA Axis Function of Children	P.I., 2%	1993-1995
Glaxo- Wellcome, Inc.	A randomized, double-blind, double-dummy comparative clinical trial of 12 week courses of salmeterol xinafoate versus extended-release theophylline versus placebo in adolescent and adult patients with chronic reversible obstructive airways disease	Co-P.I., 2%	1993-1994
Zeneca Pharm	A multicenter, randomized, double-blind study to compare the effect of oral doses of ZD2138 with placebo over 4 weeks in patients with bronchial asthma	P.I., 2%	1993-1994
TAP Pharm	Dose-ranging effect of Abbott 73001 on bronchial hyperresponsiveness to metha-choline choline in patients with moderate asthma	P.I., 2%	1994-1995
Astra	A study of three dose levels of budesonide nebulizing suspension and placebo in asthmatic children aged 8 years and younger	P.I., 2%	1994-1996
Fisons	Effect of Tilade on objectively measured nocturnal coughing and wheezing in asthma	P.I., 5%	1994-1996
Glaxo- Wellcome, Inc.	A Double-Blind, Parallel Group Evaluation Salmeterol Versus Placebo in the Treatment of Nocturnal Asthma	Co-P.I., 1%	1994-1995
Fisons	A multi-center, randomized, double-blind, placebo-controlled, parallel group comparative study of the efficacy and safety of chlorofluorocarbon (CFC) and non-CFC formulations of Intal metered dose inhaler 2 mg q.i.d. in the treatment of moderate asthmatic patients 12 years and older, withdrawn from Intal maintenance therapy	P.I., 2%	1995-1996
Immune-Tech	A study to investigate the efficacy and safety of C1-inhibitor (human) vapor-heated, Immuno as a therapeutic agent in	P.I., 2%	1995-1996

patients with hereditary angioedema

Glaxo-Wellcome, Inc.	A Randomized, Double-Blind, Double-Dummy, Parallel-Group, Placebo-Controlled, Six Month Clinical Trial to Examine the Efficacy and Safety of Salmeterol Xinafoate 42 mcg bid, Beclomethasone Dipropionate 84 mcg QID, and Placebo in Adolescent and Adult Subjects with Mild to Moderate Asthma	Co-P.I., 1%	1995-1996
TAP Pharm	Dose Ranging Effect of Abbott 73001 on Bronchial Hyperresponsiveness to Methacholine in Patients with Moderate Asthma	P.I., 2%	1995-1996
Allergenic	Oral Immunotherapy with Short Ragweed Pollen Extract Compared with Placebo in Intranasal Ragweed Challenge	P.I., 5%	1995-1996
Fetzer Institute	Stress and Susceptibility to Asthma	Co-P.I., 1%	1995-1996
3M Pharm.	12-Month, Open-Label, Safety and Efficacy of HFA-134a Beclomethasone Dipropionate in Subjects with Asthma	Co-P.I., 1%	1995-1996
Glaxo-Wellcome, Inc.	A Comparison of Adding Serevent Versus Doubling the Dose of Beclorvent in Asthmatic Subjects Symptomatic on Their Existing Inhaled Corticosteroids	P.I., 1%	1995-1996
Glaxo-Wellcome, Inc.	A Double-Blind, Randomized, Placebo-Controlled, Multicenter, Parallel-Group Study to Investigate the Efficacy and Safety of GG167 Administered Twice or Four Times a Day for the Treatment of Influenza A and B Viral Infections	P.I., 1%	1995-1996
Glaxo-Wellcome, Inc.	A Randomized, Double-Blind, Parallel-Group, Comparative Trial of Inhaled Fluticasone Propionate and Beclomethasone Dipropionate Via the Metered-Dose Inhaler in Asthmatic Subjects Currently	Co-P.I., 1%	1995-1996
Schering-Plough Research Institute	Dose Ranging Study of Mometasone Furoate Nasal Spray in the Treatment of Children (ages 6-11) with Seasonal Allergic Rhinitis	P.I., 1%	1996-1997
Rhone-Poulenc-Rorer	Assessment of Short-Term Growth in Dose-Ranging, Placebo Controlled, Crossover Study of Triamcinolone Acetonide in Children 6 to 9.5 Years Old with Mild Asthma	P.I., 1%	1996-1998
Schering-Plough Research Institute	Efficacy of Loratadine Syrup in Children (ages 6-12 years) with Seasonal Allergic Rhinitis	P.I., 1%	1996-1997

Schering-Plough Research Institute	One-Year, Evaluation Blind Study of Mometasone Furoate Nasal Spray Versus Beclomethasone Dipropionate in Children (ages 6-11) with Perennial Rhinitis	P.I., 1%	1996-1998
1 RO1 DC NIH 02833-01 NIH/NIDCD	Prevention of Otologic Complications of Influenza A	Co-P.I., 10%	12/96-11/98
Smith Kline Beecham	A double-blind, placebo controlled trial Comparing Contac and Sudaferd in adults with viral induced colds.	P.I., 2%	1996-1997
Schering-Plough Research Institute	Claritin-D 12 hour and guaifenesin (600mg BID) alone and in combination versus placebo in patients with seasonal allergic rhinitis and cough.	P.I., 2%	1997-1998
Astra	A safety study of Pulmicort nebulizing suspension in severe, oral steroid-dependent asthmatic patients aged 6 months to 8 years.	P.I., 2%	1997-2000
Astra	A 3 year, open-label safety study of budesonide nebulizing suspension in asthmatic children.	P.I., 2%	1997-2000
Astra	An evaluation of Pulmicort Respules versus Intal in asthma-related outcomes in children 2 to 6 years old.	P.I., 2%	1997-1999
Astra	START - Inhaled steroid treatment as regular therapy in early asthma	P.I., 2%	1997-2002
Section of Allergy/Immunology; Children's Hospital of Pittsburgh	Comparison of short-term growth velocity in mild asthmatic children versus non-asthmatic children aged 6 to 11 years old as measured by knemometry.	P.I.	1997-1999
Schering-Plough	Claritin-D 12-hour and guaifenesin (600 mg BID) alone and in combination versus placebo in patients with seasonal allergic rhinitis and cough.	P.I., 2%	1997-1998
Glaxo-Wellcome	A double-blind, randomized, placebo-controlled, parallel-group, multicenter study to investigate the efficacy and safety of inhaled zanamivir in the treatment of influenza A and B viral infections in adolescents and adults.	P.I., 2%	1997-2000
Schering-Plough	Multiple dose safety study of mometasone furoate dry powder (MF-DPI) in asthmatic children.	P.I., 20%	1997

Glaxo-Wellcome	Assessment of short-term growth in a cross-over study of intranasal fluticasone propionate, BDP and placebo in children 6 to 10/10.5 years old with perennial allergic rhinitis.	P.I., 2%	1998-1999
Schering-Plough	One-year, double-blind study of the effects of mometasone furoate dry powder inhaler versus placebo on the growth of children with mild asthma.	P.I., 2%	1998-2000
Zeneca	A multi-center double-blind comparison of zafirlukast with placebo in pediatric subjects with mild to moderate asthma.	P.I., 2%	1998-1999
Merck	A multi-center, double-blind, randomized parallel-group chronic asthma study comparing montelukast with placebo in 2-5 year old patients.	P.I., 2%	1998-2000
NIH/NIMH RO1MH50429-06	"Social Support, Stress and Susceptibility to Infection" The major goal of this study is to evaluate the roles of Social networks, interactions, and interpersonal conflicts and strains in susceptibility to upper respiratory infections	Sub-Invest, 5%	1996-2001
NIH IP50HL65111	"Psychobiological Pathways: Risks for Respiratory Illness"	Sub-Invest, 15%	1999-2004
Forest Laboratories	"A Placebo Controlled, Single-Blind, Cross-Over Study to Evaluate the Short-Term Growth Effects of Flunisolide and Fluticasone in Pediatric Patients with Mild Asthma"	P.I., 16.8%	1999-2001
Merck	A multicenter, double-blind, randomized, parallel group study comparing the effect on linear growth of montelukast with placebo and inhaled beclomethasone in pediatric patients (Pre-Pubertal, Tanner Stage I) with mild asthma.	P.I., 11.2%	1999-2001
Glaxo Wellcome	A multicenter, randomized, double-blind, parallel-group Study to assess the potential growth effects of a 1 year Course of fluticasone propionate aqueous nasal spray vs. placebo in pediatric patients with PAR	P.I., 11.2%	1999-2001
Glaxo Wellcome	A Multicenter, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled 12-Week Study of Fluticasone Propionate 44mcg and 88mcg BID Delivered via MDI and a Valved Holding Chamber in Subjects with Asthma 24 months-47 months.	P.I., 5.6%	1999-2000
TAP	A Study to Compare the Safety and Efficacy of Lansprazole 30mg BID Plus Usual Asthma Care vs. Placebo Plus Usual Asthma Care in Relieving Asthma Symptoms of Subjects With Asthma and Suspected GER	P.I., 1%	1999-2001
Merck	An Open Controlled Extension to the Chronic Asthma Study Comparing Montelukast with Placebo in 2-5 Year Old Patients	P.I., 1%	2000-2002
Merck	Effect of Montelukast vs. Placebo on Objectively Measured Nocturnal Cough in a Double-Blind, Randomized Trial of Children Ages 6-14 Years with Mild Asthma	P.I., 5%	2000-2002

GlaxoWellcome	A Multi-center, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled, 12-Week Study of Fluticasone Propionate 44mcg BID and 88mcg BID delivered via MDI and a Valved Holding Chamber with Facemask in Subjects With Asthma Age 6 Months to 23 Months	P.I., 1%	2000-2001
Pfizer	A Randomized, Double-Blind, Parallel-Group, Placebo-Controlled, Multi-center Study of the Efficacy and Safety of Citirizine-Pseudoephedrine vs. Fexofenadine-pseudoephedrine vs. Placebo In the Treatment of Subjects Twelve years and Older with SAR	P.I., 10%	2000-2001
Procter and Gamble	Effects of Experimental Rhinovirus Infection on Immune Cell Profiles and Biomarkers of Pathogenesis	P.I., 10%	2000-2001
Schering-Plough	Effects of Desloratadine on Allergic Inflammatory Response Of the Nasal Mucosa Associated with Symptomatic SAR: A Nasal Biopsy Study	P.I., 1%	2000-2002
Genentech	An Observational Study of the Epidemiology and Natural History Of Asthma	P.I., 1%	2000-2003
Aventis	Effects of Long-Term Treatment of Intranasally Inhaled Triamunolone Acetonide in Children with Allergic Rhinitis	P.I., 1%	2001-2011
Astra-Zeneca	A Safety and Efficacy Study of Two Dosage-levels of Pulmicort Respules (Budesonide Inhalation Suspension, 0.5 or 1.0 mg/day) Versus Placebo in Infants Between the ages of Six and Twelve Months with Mild to Moderate Asthma		
Sepracor	An Efficacy, Safety and Tolerability Study of Daily Dosing with Levalbuterol, Racemic Albuterol and Placebo in Pediatric Subjects 2-5 Years Old with Asthma		
Aventis	A Phase III Multicenter, Double Blind, Placebo Controlled, Non Inferiority Study Assessing The Effects Of Ciclesonide Metered Dose Inhaler 50ug/Day And 200ug/Day (Ex-Valve) Administered Once Daily On Growth In Children With Mild Persistent Asthma		
Aventis	A Pilot Study to Characterize the Cytokine Immune Response to Immunization		
Viropharma	A Randomized, Double-blind, Placebo-Controlled Study to Evaluate The Clinical Efficacy, Virologic Activity, and Safety of Pleconaril (Oral Suspension) in the Treatment of Viral Respirator Infection in Children I to 6 Years of Age		
Viropharma	A Randomized, Double-blind, Placebo-Controlled Study to Evaluate the Clinical Efficacy, Virologic Activity, and Safety of Pleconaril (Oral Suspension) In the Treatment of Viral Respiratory Infection in Children 7 to 12 Years of Age		
Astra-Zeneca	Rates of Seroconversion Following Varicella Vaccination of Asthmatic Children between the Ages of One and Eight Years Treated with Pulmicort Respules versus Non-Steroidal Conventional Asthma Therapy		
Astra-Zeneca	"A Pilot Study to Evaluate the Effect of Nebulized Budesonide and Oral Corticosteroids on Asthma Relapse in Pediatric Patients Following Discharge from the Emergency Department/Outpatient Care Facility"	P.I., 4%	2003

Sepracor	"The Effect of Levalbuterol on Nasal Mucocilliary Clearance"	P.I., 15% 2003
Fetzer Institute	A stress Management Intervention for Children with Asthma	P.I, 5% 2003
Merck	"A Randomized, 2-Period, Multicenter, Double-Blind, Parallel-Group Study Comparing the Effects of 2 Doses of Montelukast Granules and Placebo in the Treatment of Respiratory Symptoms Associated with Respiratory Syncytial Virus-Induced Bronchiolitis in Children Aged to 18 Months"	P.I. 2003
Merck 2003	A Pilot Study to Evaluate the Potential of Montelukast to Prevent the Development of Nasal Symptomatology during Natural Viral Upper Respiratory Infections	Co P.I. 11%
Novartis	An Investigation of the Safety and Efficacy of Elidel 1% Cream in Atopic Disease Modification, Assessed in a 3 Year Randomized Double Blind Vehicle Controlled Phase to Evaluate Effects on Atopic Dermatitis in Infants and a 2-3Year Open Label Phase to Evaluate the Effect of Early Intervention Versus Delayed Intervention with Elidel on the Incidence of Asthma in Children	
Merck	A Pilot Study to Evaluate the Efficacy of Montelukast in the Treatment of Acute Otitis Media (AOM) in Children	P.I. 15% 2004
Novartis	A One Year, Randomized, Double Blind, Parallel Group, Placebo Controlled, Multicenter Evaluation of Efficacy, Safety, Pharmacokinetics and Pharmacodynamics of Omalizumab in Children (6-<12Years) With Moderate-Severe, Persistent, Inadequately Controlled Allergic Asthma	
NIH/NIAD AI19262	Immune Mechanisms of Middle Ear Diseases	P.I. 30% 2003-2006
Heinz Foundation Wean Foundation HUD	The At Home Program	PI 2005
Greer Laboratories, Inc.	Parallel, Randomized, Double-Blind, Placebo Controlled Dose-Response Trial In Adults for the Sublingual-Oral Immunotherapy (SLIT) of Allergic Rhinoconjunctivitis and Asthma Caused by Ragweed Pollen	PI 2006
Greer Laboratories, Inc.	Parallel, Randomized, Double-Blind, Placebo-Controlled Trial in Adults for the Sublingual-Oral Immunotherapy (SLIT) of Allergic Rhinoconjunctivitis With or Without Asthma Caused by Timothy Grass Pollen	PI 2006
Sanofi-Aventis	A Randomized, Multicenter, Double-Blind, Placebo-Controlled, Parallel Group Study of the 12 Month Effect of Treatment with Once Daily Triamcinolone Acetonide (NASACORT® AQ Nasal Spray 110 micrograms) on the Growth Velocity of Children, 3 to 9 Years of Age, with Perennial Allergic Rhinitis PAR)	PI 2007
Adams Respiratory Therapeutics	A Randomized, Double-Blind, Parallel-Group, Multicenter, Placebo Controlled Study of the Safety and Efficacy of Mucinex D as Adjunct Therapy to Antibiotic Treatment of Acute Respiratory Infection	PI 2007

CURRENT RESEARCH INTERESTS

1. Relationships between respiratory viruses, asthma, immunity and stress.
2. Relationship between viral and allergen-induced nasal inflammation and middle ear disease.
3. Efficacy and safety of inhaled steroids on HPA axis function as measured by cosyntropin stimulation and growth utilizing stadiometry and knemometry to measure.
4. Use of a home-based telemetry unit to monitor cough in respiratory diseases.
5. Seasonal allergic rhinitis in children.
6. Mapping of common cold etiology in experimentally infected subjects.

7. Role of a sodium-potassium adenosine triphosphatase inhibitor in the control of secretion by mast cells and lymphocytes, and in allergic diseases.
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SEMINARS AND INVITED LECTURES

1. The usefulness of an index to predict hospitalization of children with acute asthma. American Academy of Allergy and Clinical Immunology, March 1984, Chicago, IL.
2. The usefulness of an index to predict hospitalization of children with acute asthma. Pennsylvania Allergy Association, June 1984, Hershey, PA.
3. Eustachian tube obstruction (ETO) after provocative intranasal challenge with house dust mite. American Academy of Pediatrics, September 1984, Chicago, IL.
4. Histamine in middle ear fluids. American College of Allergists, February 1985, Bar Harbour, ME
5. Eustachian tube obstruction (ETO) after provocative intranasal challenge with house dust mite. American Academy of Allergy and Clinical Immunology, March 1985, New York
6. Histamine in middle ear fluids. XII International Congress of Allergology and Clinical Immunology, October 1985, Washington D.C.
7. Eustachian tube obstruction (ETO) after histamine nasal provocation - A double blind dose response study. American Academy of Allergy and Clinical Immunology, March 1986, New Orleans.
8. Seasonal fluctuations of middle ear histamine in otitis media with effusion (OME). Society for Pediatric Research, May 1986, Washington D.C.
9. Mucosal hyperresponsiveness: A mechanism for eustachian tube obstruction (ETO) in allergic rhinitis (AR). Society for Pediatric Research, May 1986, Washington D.C.
10. Plasma elevations of a prostaglandin (PG) F₂-alpha metabolite in acute asthma (AA). American Academy of Pediatrics, November 1, 1986, Washington, D.C.
11. Plasma elevations of a prostaglandin (PG) F₂alpha metabolite in acute asthma (AA). American Academy of Allergy and Clinical Immunology, February 1987, Washington, D.C.
12. Challenge Methods - Challenge Materials. Nasal Challenge Workshop, February 1987, Washington, D.C.
13. Plasma elevations of a prostaglandin (PG) metabolite in acute bronchitis (AB) and acute asthma (AA). ACRC Program Directors' Biennial Meeting, April 1987, Williamsburg.
14. Plasma histamine elevations in acute asthma (AA). Society for Pediatric Research, April 1987, Anaheim.
15. Plasma elevations of a prostaglandin (PG) metabolite in acute bronchitis (AB). Society for Pediatric Research, April 1987, Anaheim.
16. Intranasal challenge with histamine and saline - effects on tubal and nasal function. Fourth International Symposium on Recent Advances in Otitis Media, June 1987, Bal Harbour.
17. Inflammatory mediators in middle ear effusions. Fourth International Symposium on Recent Advances in Otitis Media, June 1987, Bal Harbour.
18. Plasma elevations of a prostaglandin (PG) metabolite in acute bronchitis (AB) and acute asthma (AA). Aspen Allergy Conference, July 1987, Aspen.
19. Nasal and bronchial challenge with allergens. International Symposium on Relationship between Nose and Bronchi, November, 1987, Ghent, Belgium.
20. Choice of provoking agents for non-specific nasal hyperresponsiveness. International Workshop on Nasal and Bronchial Challenge Tests, November, 1987, Ghent, Belgium.
21. Late phase eustachian tube (ET) and nasal allergic responses associated with inflammatory mediator (IM) elaboration. American Academy of Allergy and Clinical Immunology, March 1988, Anaheim.
22. Late phase nasal reactions. National Symposium on Nasal Function in Health and Disease, April 1988, Providence, Rhode Island.
23. Plasma elevations of histamine (HIST) and a prostaglandin (PG) metabolite in acute bronchitis (AB). Society for Pediatric Research, May 1988, Washington, D.C.
24. Inhibition of the sodium-potassium adenosine triphosphatase (Na,K ATPase) pump by plasma of allergic subjects. American Academy of Allergy and Clinical Immunology, February 1989, San Antonio.

25. Moderator, Nasal Provocation Seminar, American Academy of Allergy and Clinical Immunology, February 1989, San Antonio.
26. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, February 1989, San Antonio.
27. Defective function of the sodium potassium adenosine triphosphatase (Na,K ATPase) pump in allergy/asthma. Society for Pediatric Research, May 1989, Washington, D.C.
28. Intranasal challenge of cynomolgus monkeys with ascaris (ASC), ragweed (RW), bradykinin (BK) and histamine (HIST). International Symposium on Infection and Allergy of the Nose, June 1989, Baltimore.
29. Human response to intranasal challenge with bradykinin (BK), histamine (HIST), prostaglandin (PG) D2 and PGF2a. International Symposium on Infection and Allergy of the Nose, June 1989, Baltimore.
30. Airway Inflammation - Therapeutic Implications. Ontario Allergy Society, June 1989, Toronto.
31. Recent Advances in the Management of Lower Respiratory Allergy. ENT Centennial Celebration Symposium: ENT Diseases in Children, September 1989, Pittsburgh.
32. Pediatric Asthma. Pulmonary Physiology and Medicine Seminar, Sponsored by the Pennsylvania Society for Respiratory Care, September 1989, Pittsburgh.
33. Mediators in Middle Ear Fluid. Mid-West Allergy Forum, October 1989, Columbus.
34. Airway Inflammation - Therapeutic Implications. West Virginia University Family Practice Seminar, November 1989, Morgantown.
35. Asthma. Pediatric Grand Rounds, West Virginia University, January 1990, Morgantown.
36. Effect of chlorpheniramine (CHL) on airway physiology and symptoms during natural pollen exposure. Midwinter Meeting of the Association for Research in Otolaryngology, February 1990, St. Petersburg Beach FL.
37. Monkey model of allergic rhinitis. Schering-Plough Research, March 1990, Kenilworth.
38. Effect of chlorpheniramine (CHL) on airway physiology and symptoms during natural pollen exposure. American Academy of Allergy and Clinical Immunology, March 1990, Baltimore.
39. Moderator, Nasal Provocation Seminar, American Academy of Allergy and Clinical Immunology, March 1990, Baltimore.
40. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, March 1990, Baltimore.
41. Airway inflammation in asthma. Grand Rounds, Oakland Medical Center, April 1990, Oakland MD.
42. Bronchiolitis, Viruses and Asthma. Allergy and the Practitioner Course, Children's Hospital, April 1990, Pittsburgh.
43. Evolutions in the therapy of asthma. Pulmonary Grand Rounds, Mercy Hospital, May 1990, Pittsburgh.
44. Inhibition of the sodium-potassium adenosine triphosphatase (Na,K ATPase) pump in allergy/asthma. World Conference on Lung Health, May 1990, Boston.
45. Relationship of allergy to chronic middle ear disease in children. Asthma, Allergy, and Dermatology - Clinical Pearls and Basic Mechanisms, Colby College, July 1990, Waterville ME.
46. Inflammation in allergic rhinitis: therapeutic considerations. Glaxo Teleconference, August, September and October 1990, throughout United States.
47. Airway inflammation in allergy and asthma. Clinical Research Rounds, Children's Hospital, September 1990, Pittsburgh.
48. Evolutions in the therapy of asthma. Grand Rounds, Children's Hospital, September 1990, Detroit.
49. Airways inflammation in asthma - therapeutic implications. Current Therapy XXI, Scioto County Medical Society, October 1990, Portsmouth OH.
50. Evolutions in the therapy of asthma. Grand Rounds, Southside Hospital, October 1990, Youngstown OH.
51. Inflammatory mediators in reactive airway disease. Research Seminar, Magee Hospital, November 1990, Pittsburgh PA.
52. Evolutions in the therapy of asthma. Grand Rounds, Children's Hospital, November 1990, Akron OH.
53. Case Presentations on Asthma. Closed Workshop - "Evolving Treatment Strategies in Airway Disease Management", February 1991, New York, NY.
54. Evolutions in the therapy of asthma. Medicine Grand Rounds, St. Francis Medical Center, Feb, 1991, Pittsburgh, PA.
55. Effect of rhinovirus 39 infection on immune/inflammatory cell functions. American Academy of Allergy and Clinical Immunology, March 1991, San Francisco.
56. Moderator, Nasal Provocation Seminar, American Academy of Allergy and Clinical Immunology, March 1991, San Francisco.
57. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, March 1991,

San Francisco.

58. Current considerations in the diagnosis and treatment of otitis media. Invited Participant, March 1991, Carlsbad, CA.
59. Airway inflammation in allergic rhinitis. Grand Rounds, St. Vincent Health Center, March 1991, Erie, PA.
60. Evolutions in the therapy of asthma. Seminar for General Practitioners, March 1991, Butler PA.
61. Evolutions in the therapy of asthma. Seminar for General Practitioners, March 1991, Pittsburgh PA.
62. Evolutions in the therapy of asthma. Grand Rounds, Children's Hospital, April 1991, Dayton OH.
63. Respiratory and allergic diseases. University of Pittsburgh School of Pharmacy 32nd Annual Spring Continuing Education Seminar on Respiratory and Allergic Diseases, April 1991, Pittsburgh PA.
64. Evolutions in the treatment of airway disease. Southwest District, Pennsylvania Society of Respiratory Care, April 1991, Pittsburgh PA.
65. Home-based telemetry objectively determines cough characteristics in children with asthma. Society for Pediatric Research, May 1991, New Orleans, LA.
66. Use of home-based telemetry to objectively determine cough characteristics in children with asthma. American Lung Association, American Thoracic Society International Conference, May 1991, Anaheim, CA.
67. Relationship between airway hyperreactivity (AHR) and sodium-potassium adenosine triphosphatase (Na,K ATPase) pump inhibition. American Lung Association, American Thoracic Society International Conference, May 1991, Anaheim, CA.
68. The management of allergic rhinitis: Implications for upper and lower airways. Grand Rounds, Children's Hospital of New Jersey, May 1991, Newark, NJ.
69. Treatment and control of seasonal allergic rhinitis. Seminar for General Practitioners, June 1991, Monongahela General Hospital, Monongahela, PA.
70. Allergic Rhinitis. Grand Rounds, Weirton Medical Center, August 1991, Weirton, WV.
71. Treatment and control of seasonal allergic rhinitis. Family Practice Seminar, West Virginia University School of Medicine, September 1991, Morgantown, WV.
72. Pediatric Asthma. Allergy/Pulmonary Update 1991 - Park Nicollet Medical Center, October 1991, Minneapolis.
73. Allergy and Ear Disease. Allergy/Pulmonary Update 1991 - Park Nicollet Medical Center, October 1991, Minneapolis.
74. Evolutions in the therapy of asthma. Vermont Osteopathic Medical Association, October 1991, Burlington VT.
75. Evolutions in the treatment of asthma. Seminar for General Practitioners, October 1991, Lower Speers PA.
76. Evolutions in the treatment of asthma. Seminar for General Practitioners, October 1991, Burlington VT.
77. Allergic Rhinitis. Allergy Grand Rounds, Children's Hospital, November 1991, Newark NJ.
78. Management of Allergic Rhinitis. Butler County Medical Society, November 1991, Butler PA.
79. NHLBI Guidelines and Their Effect on Treatment of Pediatric Asthma. Grand Rounds, Shenango Valley Hospital, November 1991, Farrell PA.
80. Airway inflammation in allergic rhinitis: therapeutic implications. Seminar for General Practitioners, December 1991, West Palm Beach FL.
81. Airway inflammation in allergic rhinitis: therapeutic implications. Seminar for General Practitioners, December 1991, Fort Lauderdale FL.
82. Recent advances in the pathophysiology of primary immune deficiencies and immunoglobulin therapy in HIV infection and autoimmune/inflammatory neurological disorders. Invited Participant, January 1992, Indian Wells, CA.
83. Advances in Asthma Care National Faculty Conference. Invited Participant, February 1992, Reston VA.
84. Effect of seasonal ragweed (RW) exposure on the response to nasal ragweed challenge. American Academy of Allergy and Clinical Immunology, March 1992, Orlando FL.
85. Moderator, Nasal Provocation Seminar, American Academy of Allergy and Clinical Immunology, March 1992, Orlando FL.
86. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, March 1992, Orlando FL.
87. Management of allergic rhinitis. Grand Rounds, Mercy Hospital, March 1992, Pittsburgh PA.
88. Airway inflammation in allergic rhinitis. Grand Rounds, Robinson Memorial Hospital, March 1992, Ravenna OH.
89. Airway inflammation in allergic rhinitis. Seminar for General Practitioners, Falls General Hospital, March 1992, Cuyahoga Falls, OH.
90. Allergic rhinitis. Continuing Medical Education Program, Westmoreland Hospital, April 1992, Greensburg, PA.
91. Allergic rhinitis - pathophysiology and treatment. Grand Rounds, Children's Hospital, April 1992, Pittsburgh PA.
92. Asthma and allergic rhinitis. Grand Rounds, Doctor's Hospital, April 1992, Massillon OH.

93. Asthma and allergic rhinitis. Seminar for General Practitioners, April 1992, Canton OH.
94. The Clinical Implications of the NHLBI Guidelines by the Asthma Care Study Group for Primary Care Physicians. Invited Participant, April 1992, Washington DC.
95. Allergic rhinitis. Seminar for General Practitioners, April 1992, Windber PA.
96. Allergic rhinitis. Beaver County Medical Society Meeting, April 1992, Beaver PA.
97. Allergy testing: skin tests and RASTS vs. controversial procedures. Allergy for the Practitioner Symposium, Children's Hospital, April 1992, Pittsburgh PA.
98. Cases in Allergy Faculty. Invited Participant, May 1992, Tampa FL.
99. Allergic rhinitis (Joseph E. Ghory Memorial Lectureship). Ohio Society of Allergy and Immunology, May 1992, Columbus OH.
100. Allergic rhinitis. Seminar for General Practitioners, May 1992, Waynesburg PA.
101. Allergies. Invited guest, "Parent Talk", WQEX Television Studios, May 1992, Pittsburgh PA.
102. Allergic rhinitis. Grand Rounds, St. Elizabeth Hospital, May 1992, Youngstown OH.
103. Allergic rhinitis. Grand Rounds, Deaconess Hospital, May 1992, Cleveland OH.
104. Allergic rhinitis. Grand Rounds, Southside Hospital, June 1992, Youngstown OH.
105. Allergic rhinitis. Association of Philippine Physicians of Ohio, June 1992, Cleveland OH.
106. Allergic rhinitis. Grand Rounds, Conemaugh Valley Memorial Hospital, June 1992, Johnstown PA.
107. Allergic rhinitis. Seminar for General Practitioners, June 1992, Baton Rouge LA.
108. The management of allergic rhinitis. Grand Rounds, Baptist Hospital, August 1992, Pensacola FL.
109. Allergic rhinitis. Grand Rounds, Lutheran Hospital, August 1992, Fort Wayne IN.
110. Allergic rhinitis. Grand Rounds, Shadyside Hospital, August 1992, Pittsburgh PA.
111. Allergic rhinitis. Grand Rounds, McKeesport Hospital, August 1992, McKeesport PA.
112. Allergic rhinitis. Grand Rounds, Altman Hospital, September 1992, Canton OH.
113. Allergic rhinitis. Nurse Practitioner Conference, Carnegie Mellon University, September 1992, Pittsburgh PA.
114. Allergic rhinitis. Grand Rounds, St. Joseph's Hospital, September 1992, Loraine OH.
115. Complications of the Common Cold. Round Table Discussion, XIV Congress of European Rhinology Society, October 1992, Rome Italy.
116. Asthma Update 1992. Asthma Educational Outreach Program, October 1992, Johnstown PA.
117. Allergic rhinitis in the elderly. Twelfth Annual Conference on Aging (Cambria-Somerset Council for Education of Health Professionals), October 1992, Seven Springs PA.
118. The NHLBI Guidelines for Diagnosis and Management of Asthma. Grand Rounds, Ohio Valley Hospital, October 1992, Wheeling WV.
119. The management of allergic rhinitis. Grand Rounds, Latrobe Hospital, November 1992, Latrobe PA.
120. The management of allergic rhinitis. Seminar for General Practitioners, November 1992, Toledo OH.
121. Allergic rhinitis and asthma. Grand Rounds, Conemaugh Valley Memorial Hospital, November 1992, Johnstown PA.
122. Recent advances in vaccine development and delivery, bone marrow transplantation and adhesion molecules in the immune response. Invited Participant, January 1993, Palm Beach FL.
123. The Management of Allergic Rhinitis. Grand Rounds, St. Mary's Hospital, January 1993, Milwaukee WI.
124. Acoustic Rhinometry. Rhinometry Workshop, January 1993, Tucson AZ.
125. Nasal and otologic effects of influenza A virus infection. Midwinter Meeting of the Association for Research in Otolaryngology, February 1993, St. Petersburg Beach FL.
126. Current modalities of asthma treatment. Grand Rounds, Somerset Medical Center, Feb., 1993, Somerset NJ.
127. Allergic rhinitis. Grand Rounds, Cabell Hospital, March 1993, Huntington WV.
128. Allergic rhinitis. Grand Rounds, General Hospital at Passaic, March 1993, Passaic NJ.
129. Allergic rhinitis. Update in Internal Medicine 1993 (Univ of Pittsburgh Med Center), March 1993, Pittsburgh PA.
130. Nasal Interleukin (IL) Levels During Experimental Influenza Virus Infection. American Academy of Allergy and Clinical Immunology, March 1993, Chicago IL.
131. Objective Measures of Nasal and Ear Function. Rhinitis/Sinusitis Course, American Academy of Allergy and Clinical Immunology, March 1993, Chicago IL.
132. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, March 1993, Chicago IL.
133. Airway Inflammation in Allergic rhinitis. Grand Rounds, Hamot Medical Center, March 1993, Erie PA.
134. The management of allergic rhinitis. Blue Grass Society for Asthma and Allergy, March 1993, Lexington Ky.
135. Allergic rhinitis - implications for the upper and lower airways. Seminar for General Practitioners, March 1993,

Buffalo NY.

136. Allergic rhinitis. Grand Rounds, Mercy Hospital, March 1993, Johnstown PA.
137. The Inflammatory Component of Asthma. Grand Rounds, St. Clares Hospital, April 1993, Denville NJ.
138. Allergic rhinitis. Seminar for General Practitioners, April 1993, Rochester NY.
139. Pharmacologic Management of Asthma. Sixth Biennial Pediatric Symposium (Children's Hospital Medical Center), April 1993, Cincinnati OH.
140. Workshop on Office Management of Allergic Diseases. Sixth Biennial Pediatric Symposium (Children's Hospital Medical Center), April 1993, Cincinnati OH.
141. Nasal and otologic effects of influenza A virus infections. Second Extraordinary International Symposium on Recent Advances in Otitis Media (with WJ Doyle, P Fireman, F Hayden and CA Buchman), April 1993, Oita Japan.
142. Otitis Media (OM) as a Manifestation of Experimental Influenza A Virus Infection. Society for Pediatric Research Meeting, May 1993, Washington DC.
143. The John H. Moyer Visiting Professor Lecture Series on Immune Deficiency and Allergy (Cambria-Somerset Council for Education of Health Professionals). Conemaugh Hospital, Lee Hospital, Memorial Hospital of Bedford County, Mercy Medical Center, Somerset Hospital, and Windber Hospital, May 1993, Johnstown PA.
144. The management of allergic rhinitis. Seminar for Pharmacists, June 1993, Pittsburgh PA.
145. Allergic rhinitis. Seminar for General Practitioners, June 1993, Pittsburgh PA.
146. Emergency Treatment of Asthma in Pediatrics. Georgia Osteopathic Medical Association, June 1993, Amelia Island FL.
147. Biochemical Mechanisms of Allergy and Airway Hyperreactivity. Pennsylvania Allergy Association 1993 Meeting, June 1993, Hershey PA.
148. Allergic rhinitis. Seminar for General Practitioners, June 1993, Pittsburgh PA.
149. The management of allergic rhinitis. Seminar for General Practitioners, August 1993, Aurora OH.
150. The management of allergic rhinitis. Grand Rounds, Lutheran Hospital, August 1993, LaCrosse, WI.
151. Inflammation in allergic rhinitis - therapeutic implications. Seminar for General Practitioners, August 1993, Albany, NY.
152. The management of allergic rhinitis. Seminar for General Practitioners, September 1993, Detroit MI.
153. The management of allergic rhinitis. Grand Rounds, Fairview General Hospital, October 1993, Cleveland OH.
154. The management of allergic rhinitis. Seminar for General Practitioners, October 1993, Buffalo NY.
155. The inflammatory component of asthma. Cleveland Allergy Society, October 1993, Cleveland OH.
156. Management of seasonal allergic rhinitis in the 90's. Seminar for General Practitioners, October 1993, Cleveland OH.
157. Biochemical Mechanisms of Allergy and Airway Hyperreactivity. Meeting of The Buffalo Allergy Society, October 1993, Buffalo NY.
158. The NHLBI Guidelines for Diagnosis and Management of Asthma. Grand Rounds, Uniontown Hospital, October 1993, Uniontown PA.
159. Allergy/Immunology Visiting Professor of the American Academy of Pediatrics, Hurley Medical Center and Michigan State University East Lansing Campus, November 1993, Flint and East Lansing MI.
160. The Wheezing and Coughing Child. Pediatric Grand Rounds, Hurley Medical Center, November 1993, Flint MI.
161. The Wheezing and Coughing Child. Grand Rounds, Michigan State University East Lansing Campus, November 1993, East Lansing MI.
162. Airway Manifestations in Children with HIV. Otolaryngology Grand Rounds, UCLA Medical Center, December 1993, Los Angeles CA.
163. Allergic rhinitis. Seminar for General Practitioners, December 1993, New Orleans LA.
164. Effect of experimental rhinovirus 39 infection on the nasal response to histamine and cold air challenges in allergic and non-allergic subjects. Midwinter Meeting of the Association for Research in Otolaryngology, February 1994, St. Petersburg Beach FL.
165. Allergic rhinitis. Baton Rouge Otolaryngology Society, February 1994, Baton Rouge LA.
166. The management of allergic rhinitis: Implications of upper and lower airway disorders. Medical Potpourri Seminar of St. John West Shore Hospital, February 1994, Cleveland OH.
167. Theophylline in the treatment of asthma. Closed Workshop on Controversies and Consensus in the Use of Theophylline for Childhood Asthma, February 1994, Denver CO.
168. Update on allergic rhinitis. Grand Rounds, Baptist Hospital, March 1994, Kansas City MO.
169. Extended release albuterol sulfate in children with bronchial asthma. American Academy of Allergy and Clinical Immunology, March 1994, Anaheim CA.

170. Moderator, Infections in Atopy and Asthma Seminar, American Academy of Allergy and Clinical Immunology, March 1994, Anaheim CA.
171. Moderator, Rhinomanometry Workshop, American Academy of Allergy and Clinical Immunology, Mar 1994, Anaheim CA.
172. Allergic rhinitis. Seminar for General Practitioners, March 1994, Canton OH.
173. Asthma: International report and medication update. Grand Rounds, Geisinger Medical Center, April 1994, Danville PA.
174. Allergic rhinitis. Grand Rounds, Licking Memorial Hospital, April 1994, Newark OH.
175. Management of allergic rhinitis. Seminar for General Practitioners, April 1994, Myrtle Beach SC.
176. The Role of Superantigens in Disease and Animal Models as Instructional Paradigms of Human Disease. Invited Participant, April 1994, Tucson AZ.
177. Otitis media - diagnosis and treatment. First Annual Allergy Fellows Symposium, May 1994, Boston MA.
178. Inflammatory component of asthma. Update on Asthma for the Practitioner Course (Memorial Hospital of Burlington County), May 1994, Mount Holly NJ.
179. Allergic rhinitis. Seminar for General Practitioners, June 1994, Medina OH.
180. Management of allergic rhinitis. Grand Rounds, Long Beach Memorial Medical Center, June 1994, Long Beach CA.
181. Management of allergic rhinitis. Grand Rounds, University of Tennessee, June 1994, Knoxville TN.
182. Allergic rhinitis and otitis media. Knoxville Otolaryngology Society, June 1994, Knoxville TN.
183. Allergic rhinitis. Grand Rounds, Warren General Hospital, August 1994, Warren OH.
184. Allergic rhinitis. Grand Rounds, Altman General Hospital, August 1994, Canton OH.
185. Allergic rhinitis. Family Practice Symposium, The Ed Bixby Institute for Postgraduate Medical Education, Research Medical Center, September 1994, Kansas City MO.
186. Respiratory virus infections in allergic patients. Wisconsin State Allergy Society, Sept., 1994, Madison WI.
187. Viral Infections and How They Relate to Asthma. Grand Rounds, All Children's Hospital, October 1994, St. Petersburg FL.
188. Asthma. Grand Rounds, Medical Center Hospital, November 1994, Marion OH.
189. Asthma. Managed Care Symposium, December 1994, Columbus OH.
190. Viral Infections and Asthma. Invited Discussant, Transatlantic Airway Conference, January 1995, Key Biscayne FL.
191. Allergic Rhinitis in Children Versus Adults - Pathophysiologic Similarities. Invited Discussant, Food & Drug Administration Workgroup, January 1995, Rockville MD.
192. Reproducibility of the effects of intranasal ragweed challenges in allergic subjects. Midwinter Meeting of the Association for Research in Otolaryngology, February 1995, St. Petersburg Beach FL.
193. Update on the NIH Guidelines for Diagnosis and Treatment of Asthma. County Medical Society Meeting, February 1995, Mansfield OH.
194. Moderator, Infections in Atopy and Asthma Seminar, American Academy of Allergy and Clinical Immunology, February 1995, New York NY.
195. Effect of influenza A virus (FLU) infection on cell-mediated immunity in allergic rhinitis (AR) and non-AR subjects. American Academy of Allergy and Clinical Immunology, February 1995, New York NY.
196. Respiratory Viral Infections and Asthma. Postgraduate Course Lecture, American Academy of Allergy and Clinical Immunology, February 1995, New York NY.
197. Inflammation in Asthma - Therapeutic Implications. Lake Erie College of Osteopathic Medicine Annual Meeting, March 1995, Clymer NY.
198. New Frontiers in the Immunoregulation of Allergic and Autoimmune Diseases. Invited Participant, March 1995, Phoenix AZ.
199. Update on Asthma. Community Mutual Insurance Company (CMIC) Managed Care Symposium, May 1995, Cincinnati OH.
200. Update on Asthma. Community Mutual Insurance Company (CMIC) Managed Care Symposium, May 1995, Dayton OH.
201. Otitis media - diagnosis and treatment. Second Annual Allergy Fellows Symposium, May 1995, Seattle WA.
202. Update on Asthma Management. Grand Rounds, Massillon Psychiatric Hospital, May 1995, Massillon OH.
203. Allergic Rhinitis Update. Seminar for General Practitioners, June 1995, Minneapolis MN.
204. Asthma - New Concepts and Treatment. 22nd Anniversary Refresher Course in Family Practice, University of Pittsburgh Medical Center, June 1995, Pittsburgh PA.
205. Update on Antihistamines for Allergic Rhinitis. Seminar for General Practitioners, June 1995, Minneapolis MN.
206. Comparison of the middle ear response to experimental infection with rhinovirus (RV)-39 and RV-Hanks.

- Midwinter Meeting of the Association for Research in Otolaryngology, February 1996, St. Petersburg Beach FL.
207. Moderator, Infections in Atopy and Asthma Seminar, American Academy of Allergy, Asthma and Clinical Immunology, March 1996, New Orleans LA.
208. Effect of experimental rhinovirus 39 (RV-39) infection on nasal bradykinin (BK) levels. American Academy of Allergy, Asthma and Clinical Immunology, March 1996, New Orleans LA.
209. Allergic Rhinitis. National Association of Pharmacists. January 1997.
210. Diminished IL-10 production. Association for Research in Otolaryngology. February 20, 1997. San Francisco, CA
211. National Allergy Fellows Symposium. May 1996, San Francisco, CA
212. American Academy of Allergy, Asthma and Immunology. Moderator, Viral/Allergen Interactions in the Airways. Symposium.
213. American Academy of Allergy, Asthma and Immunology. Moderator, Atopy and Viral Infections. Symposium.
214. National Asthma Consultants Meeting. Systemic side effects of Inhaled Corticosteroids. October 1996.
215. Grand Rounds. Morton Plant Hospital. Tampa, FL. March 4, 1997. Allergic Rhinitis. New Approaches for the Diagnosis and Management of Asthma. March 11, 1998. Louisville, KY
216. Profile for American Academy of Allergy, Asthma and Immunology News. March 25, 1998
217. Innovative Strategies for Immune Therapeutics. March 26-29, 1998. Bodega Bay, CA
218. New Approaches for the Diagnosis and Management of Asthma. April 2, 1998. Grand Rapids, MI
219. New Approaches for the Diagnosis and Management of Asthma. April 9, 1998. Ft. Myers, FL
220. New Approaches for the Diagnosis and Management of Asthma. April 22, 1998. Williamsville, NY
221. New Approaches for the Diagnosis and Management of Asthma. April 24, 1998. Callicoon, NY
222. E11-Clear Communication: The Critical Step for a Smooth Transition From CFC to HFA Formulations. Measuring and Assessing Efficacy of the Transition to the New Formulations. April 24-29, 1998. Chicago, IL
223. New Approaches for the Diagnosis and Management of Asthma. April 28, 1998. Chicago, IL
224. New Approaches for the Diagnosis and Management of Asthma. April 29, 1998. Kalamazoo, MI
225. New Approaches for the Diagnosis and Management of Asthma. April 29, 1998. Lemont, IL
226. 14th Annual Clinical Virology Symposium. April 26-29, 1998. Clearwater Beach, FL
227. New Approaches for the Diagnosis and Management of Asthma. April 30, 1998. Milwaukee, WI
228. Azmacort Speakers Training. May 1-3, 1998. Orlando, FL
229. The American Pediatrics Society/The Society for Pediatric Research poster session presentation. May 4, 1998. New Orleans, LA
230. Allergy and Immunology In Training Examination. May 4, 1998.
231. New Approaches for the Diagnosis and Management of Asthma. May 7, 1998. Fort Wayne, IN
232. New Approaches for the Diagnosis and Management of Asthma. Pulmicort Turbohaler. May 9, 1998. Chicago, IL
233. Asthma Management 1998. Asthma and the Use of Singulair. Einstein Medical Center, NY
234. Leukotrienes in Asthma. May 14, 1998. Pittsburgh, PA
235. New Approaches for the Diagnosis and Management of Asthma. Pharmacotherapy. May 14, 1998. San Antonio, TX
236. Current Perceptions in about the Treatment of Seasonal Allergic Rhinitis and Chronic Urticaria. May 14-17, 1998. Boca Raton, FL
237. New Approaches for the Diagnosis and Management of Asthma. May 19, 1998. Louisville, KY
238. New Approaches for the Diagnosis and Management of Asthma. May 21, 1998. Bay City, MI
239. New Approaches for the Diagnosis and Management of Asthma. May 26, 1998. Port Charlotte, FL
240. New Approaches for the Diagnosis and Management of Asthma. May 27, 1998. Joplin, MO
241. New Approaches for the Diagnosis and Management of Asthma. May 30, 1998. Addison, IL.
242. New Approaches for the Diagnosis and Management of Asthma. Pharmacotherapy and Patient Education. June 3, 1998. Charlottesville, VA
243. Livostin Advisory Board Meeting. Approach to Managing Allergy Patients. June 4, 1998. Washington D.C.
244. Asthma and Allergy Utilizing Pharmacogenetics and Cost-Effective Approaches for Target Validation. June 4-5, 1998. Baltimore, MD
245. New Approaches for the Diagnosis and Management of Asthma. June 5-6, 1998. Columbus, OH
246. New Approaches for the Diagnosis and Management of Asthma. June 7, 1998. Pittsburgh, PA
247. Asthma Management in the School Setting. August 14, 1998. Pittsburgh, PA.
248. Effect of Rhinovirus in Asthma. American Academy of Allergy, Asthma and Immunology. March 3, 1999. Orlando, FL
249. Pharmacological Treatment of Allergic Rhinitis. American Academy Allergy, Asthma and Immunology. March 2,

1999. Orlando, FL.
250. Viral Infections Inducing Airway Inflammation. Co-Moderator. American Academy Allergy, Asthma and Immunology. February 28, 1999. Orlando, FL.
251. Grand Rounds - Regions Hospital, August 6, 1999, St. Paul MN
252. St. Joseph's Hospital, Grand Rounds, August 19, 1999, Parkersburg, WV
253. Pediatric Respiratory Consultants Meeting, August 27, 1999, Seattle, WA
254. National Meeting, September 21, 1999, Puerto Rico
255. St Francis Hospital Grand Rounds - September 24, 1999, Pittsburgh, PA
256. Frick Hospital Grand Rounds, September 28, 1999, Mt. Pleasant, PA
257. 3 Rivers Pediatric Update, October 23, 1999, Pittsburgh, PA
258. Westmoreland Hospital Grand Rounds, November 5, 1999, Greensburg, PA
259. "Asthma in the Year 2000 and Beyond". January 21-23, 2000, Bergamo, Italy
260. Visiting Consultanship, January 27, 2000, Johnstown, PA
261. "The Role of Leukotrienes in Asthma". February 12, 2000, Latrobe Hospital, Latrobe, PA Grand Rounds
262. "Managing Pediatric Asthma in the New Millennium". February 23, 2000, MSD Symposium, Nice, France
263. American Academy of Allergy Asthma and Immunology. San Diego, CA, March 3, 2000
264. "An Overview of Outcomes Management, March 9, 2000, Children's Hospital of Pittsburgh, Pittsburgh, PA.
265. Grand Rounds, Lancaster General Hospital. March 11, 2000, Lancaster, PA
266. Grand Rounds. "Use of Controller Medications for Pediatric Asthma". March 14, 2000, Mercy Hospital of Pittsburgh, Pittsburgh, PA.
267. 22nd Annual Symposium Kentucky Society for Allergy & Asthma & Immunology, "Management of Allergic Diseases in the New Millenium". April 14-16, 2000, St. Joseph Hospital. Lexington, KY.
268. Pediatric Teaching Day. Nassau County Medial Center. "Allergic Drug Reactions", and "Management of the Acute Asthmatic Attack". April 13, 2000, Garden City, NY.
269. Pediatric Academic Society Meeting/American Academy of Pediatrics. May 12-16, 2000, Boston, MA.
270. American Association of Physicians of Indian Origin. June 29, July 2, 2000, NY Marriott Marquis Hotel.
271. Pediatric Asthma Colloquia. Columbus Children's Hospital. August 2, 2000, Columbus, OH.
272. Visiting Professorship, Walter Reed Hospital - "Honey I Shunk the Kids", August 17, 2000, Washington, DC.
273. VA Chapter of AAP - "Inhaled Steroids in Allergy Management, Bone Growth and Alternative Management," September 22, 2000
274. "New Anti-inflammatory Therapy for Children with Asthma," - October 11, 2000, Pittsburgh, PA
275. "Dental and Facial Abnormalities in Children with Allergic Rhinitis," - October 13, 2000, Mystic, CT
276. XVII International Congress of Allergology and Clinical Immunology - October 15-20, 2000 - Sydney, Australia
277. ACAAI - "How Practice Parameters Can Tame Managed Care," - November 7, 2000 - Seattle, WA
278. "Inhaled Steroids in Children," - November 11, 2000 - Johns Hopkins, Baltimore, MD
279. Combined Eastern Allergy Conference - January 11-13, 2001, Acapulco, Mexico
280. WSAAI 39th Annual SCIE Session - January 21-25, 2001, Hawaii
281. Grand Rounds - "Flonase," - February 22, 2001, Beaver Medical Center
282. AAAAI Conference - "Novel Approaches to Home Management of Acute Asthma," March 16-20, 2001, New Orleans, LA
283. Three Rivers Clinical Pediatric Update - "Controller Medications for Asthma," - March 29-31, 2001, Pittsburgh, PA
284. "Treatment of Asthma in Young Children" - April 19, 2001, Philadelphia, PA
285. "Asthma Medications - Part II" and "Serious Otitis Media and it's Relationship to Asthma," - April 21, 2001, Vestal, NY
286. Allergy Educators' Summit: Bone Growth Suppression" - April 27-29, 2001, Greenbriar, WV.
287. Medical Grand Rounds - "Management of Allergies," - May 1, 2001, UPMC McKeesport
288. 4th Annual Workshops in Rhinosinusitis - May 5-6, 2001, Whistler, BC
289. "Update on Allergic Rhinitis and Related Disorders," - May 7, 2001, Bethesda, MD
290. Pediatric Grand Rounds - May 11, 2001, Allegheny General Hospital
291. Medical Grand Rounds - "Allergic Rhinitis," - June 6, 2001, St. Francis Medical Center, Pittsburgh, PA
292. International Leukotriene Symposium: "Role of Leukotriene Receptor Antagonists in the Management of Childhood Asthma" - June 22-26, 2001, Tokyo, Japan
293. 21st Symposium Ear, Nose & Throat Diseases in Children 2001 Update, July 20-21, 2001, Pittsburgh, PA

294. Pediatric Grand Rounds. Children's Hospital of Pittsburgh. September 6, 2001, Pittsburgh, PA
295. Pediatric Grand Rounds. Children's Hospital of Buffalo. July 6, 2001, Buffalo, NY
296. Pediatric Asthma in the New Millennium Symposium: "Inhaled Corticosteroids: New Agents, Risks and Benefits" – September 22, 2001, New Brunswick, NY.
297. Allergy and Imperatives Regional Speakers' Training Meeting: "Perspectives in the Burden of Allergic Disease" and "Systemic Safety of Nasal Steroids" – October 5-7, 2001, New York, NY.
298. Focus 2001 – St. Vincent Health Center: "Pediatric Asthma" – October 19, 2001, Erie, PA.
299. Mid Atlantic Conference of Lead Safe Housing and Healthy Homes: "Illnesses Caused by Unhealthy Conditions" – October 28-30, 2001, Pittsburgh, PA.
300. American College of Chest Physicians: Viral Infections and Asthma: New Cellular and Molecular Links" – November 6, 2001, Philadelphia, PA.
301. ACAAI: Moderator – "New Clinical Correlates Influencing Asthma and Rhinitis Therapy" – Speaker – "Safety Alert: Inhaled Corticosteroids" – November 16, 2001, Orlando FL.
302. ICAAC: "Virus Induced Reactive Airway Disease: The Role of Inflammatory Cytokines" – December 27, 2001, Chicago, IL.
303. AAAAI Conference – "Interaction Between Infectious Agents and Atopic Disease" – March 1-6, 2002 – New York, NY.
304. Scientific Day – "Reactive Airway" – The Washington Hospital – May 3, 2002 – Southpointe, PA.
305. AAAAI Conference – Workshop: "The Atopic March: Development of Respiratory Disease in Infants with Atopic Dermatitis": Development of Rhinitis – March 7-12, 2003 – Denver, CO.
306. AAAAI Conference – Symposium- "Evolving Concepts in the Treatment of Asthma: Key Insights into Current and Future Therapies – "ICS: Safety Issues in the Book Ends of Life" – March 7-12, 2003 – Denver, CO.
307. AAAAI Conference – Seminar: Discussion Leader – "Recognition and Management of Osteoporosis in Asthmatics" – March 7-12, 2003 – Denver, CO.
308. Medical Ground Rounds, "The Allergy/Asthma Linkage"-April 23, 2003, Allegheny General Hospital, Pittsburgh, PA.
309. Research Seminar Series, Center for Genomic Sciences, "Nasal Versus Systemic Corticosteroids for Allergic Rhinitis in Children"-April 28, 2003, Allegheny General Hospital, Pittsburgh, PA.
310. Allergy and Asthma Grand Rounds, "Update on Epidemiology of Asthma in Pittsburgh"-May 5, 2003, Allegheny General Hospital, Pittsburgh, PA.
311. The Pittsburgh Spring Asthma and Allergy Update-CME Conference: Conference Director- "Epidemiology of Asthma in the Pittsburgh Region"; " Safety and Efficacy of Asthma Controllers"; "Treatment of the Nose in Allergy/Asthma" (workshop) - May 29, 2003- Allegheny General Hospital, Pittsburgh, PA.
312. Pediatric Teaching Day: Lecturer- "The Asthma Spotlight on Pre-Schoolers!"- June 16, 2003, Forbes Regional Hospital, Monroeville, PA.
313. National Pediatric Asthma Congress-MSD Satellite Symposium: Lecturer-"The Use of Controller Medications in Childhood Asthma and Viral Wheeze"-September 3, 2003, JiaXing, China.
314. Western Pennsylvania Conference on Asthma: Conference Director /Lecturer- "Asthma Facts and Figures-The Nation and Western Pennsylvania"; Panel Discussion: "Rescue Versus Controller Medications: How Do Physicians Change the Way They Treat Asthma? - September 20, 2003, Pittsburgh Marriott North, Cranberry Township, PA.
315. CHEST 2003: Moderator-"Managing Exacerbations in Asthma and COPD"- Lecturer: "Causal Factors in Exacerbations"- October 27, 2003, Gaylord Palms, Orlando, Florida.
316. ACAAI 2003 Annual Meeting: Lecturer-"Natural History of Pediatric Asthma & Atopy"; Pediatric and Rhinitis/Sinusitis Committees Member; November 7-12, 2003, New Orleans, Louisiana.
317. St. John's University Third Annual Asthma Symposium/Current Trends and Advances in Asthma: Lecturer-"The Link between the Upper and Lower Airways"-November 13, 2003, St. John's University, Jamaica, New York.
318. AAAAI Annual Meeting: Moderator-"Practical Considerations in the Use of Corticosteroids for Allergic Rhinitis/Asthma: What Should I Do and Say"; Symposium-"ICS and Safety: Effects of Dose and Drugs"; Moderator- "Efficacy and Controversies in the Use of Intranasal and Inhaled Steroids"; Speaker-"Has the Move Towards Newer Corticosteroids Completely Freed Us from the Possibility of Growth Suppression in Children? Lung vs Nose Considerations"-March 19-23, 2004, San Francisco, CA.
319. Fifth Malaysian Congress of Allergy and Immunology (FMCAI): Lecturer-"Dental and Facial Abnormalities in Children with Allergic Rhinitis"; "The Role of Leukotriene Receptor Antagonist in the United Airway Disease"-

- April 2-4, 2004, Nikko Hotel Kuala Lumpur, Malaysia.
320. Western Pennsylvania CME Conference on Asthma: Conference Director /Lecturer: "The Atopic March"-April 24, 2004, Pittsburgh, Pennsylvania.
321. Beaver County Medical Society: Lecturer: "Update on Pediatric Asthma"-May 13, 2004, Beaver, Pennsylvania.
322. AR Pri-Med Update: Lecturer: "Allergic Rhinitis: Effective Treatment for Optimal Outcomes"-June 10, 2004, Hartford, Connecticut.
323. Florida Pediatric Society/Florida Chapter of the American Academy of Pediatrics: General Pediatric Update X Annual Meeting: Lecturer-"Asthma"-June 20, 2004, Boca Raton, Florida.
324. National Meeting of the Venezuelan Society of Allergy, Asthma & Immunology: Lecturer: Topic: Asthma Treatment- June 23-June 24, 2004, Margarita Hilton, Venezuela.
325. 2004 Allergist Advisory Board Meeting (Aventis): Consultant-August 5- 8, 2004, The American Club, Kohler, Wisconsin.
326. Pennsylvania Department of Health/Asthma Summit: Lecturer: Topic: Reaching Healthy People 2010 Goals- August 10, 2004, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA.
327. "Pediatrics-Head to Toe": Lecturer Faculty Member: Topic: Exercise-Induced Bronchospasm-October 9, 2004, Allegheny General Hospital, Pittsburgh, PA.
328. AAP Symposium: Lecturer: Topic: "Early Intervention and Prevention Strategies for Optimal Outcomes for Pediatric Asthma Patients"-October 9, 2004, San Francisco, California.
329. ACAAI 2004 Annual Meeting: Rhinitis/Sinusitis Committee/Presenter: "Aerobiology, Allergens, Allergen Extracts/Pharmacology" (November 15, 2004), November 12-17, 2004, Boston, MA.
330. TPAIS Conference: Speaker/Panel Discussion & Lecturer-"Viruses and Asthma", November 19-23, 2004, Mumbai, India.
331. Transatlantic Airway Conference (TAC 2005): Discussant, January 19 to 21, 2005, Key Biscayne, FL.
332. National Faculty Preparation Meeting 2005: Participant; January 21-22, 2005, Dallas, TX.
333. Central Florida Allergy Society, Lecturer: Topic: Asthma; January 27 to 28, 2005, Orlando, FL
334. Miami Children's Hospital 40th Annual Pediatric Postgraduate Course: "Perspectives in Pediatrics": Lecturer: "Allergies and Ear Infections", January 28-February 3, 2005 (January 31, 2005), Miami, FL.
335. Pittsburgh Allergy Society, Lecturer: Topic: Strategies for improving local asthma management; March 8, 2005; Pittsburgh PA.
336. Treatment & Management of Asthma: CME Faculty Development Program: Participant, March 11- 13, 2005; Miami, FL.
337. 2005 AR-Pri-Med Update: "Treating Allergic Rhinitis: Mechanism-based Evaluation and Treatment Strategies", March 22, 2005, Detroit, MI.
338. Pediatric Advisory Board Meeting: Participant, May 2-3, 2005, New York, N.Y.
339. Central Florida Pediatric Society, Lecturer, Topic: Asthma; May 11, 2005, Orlando, FL.
340. Clinical Expert Forum (Schering-Plough): Participant; May 13, 2005, Houston, TX.
341. Rhinitis Multi-Disciplinary Advisory Board (Sanofi-Aventis): Participant; June 6-7, 2005, Dallas, TX.
342. Third Annual Western Pennsylvania CME Conference on Asthma: Moderator/Lecturer; "Controller Therapy in Asthma- When to Start, What to Use, How Long to Continue"; June 8, 2005, Pittsburgh, PA.
343. City Symposia: Lecturer; August 8-11, 2005, Beijing, Shanghai, and Guangzhou, China.
344. National Allergist Advisory Board Meeting: Participant; August 11-14, 2005, La Jolla, CA.
345. Adams Panel Meeting: Participant; August 25-26, 2005, Short Hills, NJ.
346. Pediatric Roundtable: "Pediatric Challenges in Allergy: Redefining the Role of Antihistamines: Participant; September 14, 2005, Boston, MA.
347. Pediatric Respiratory Advisory Board Meeting: Lecturer; "A Pilot Study to Evaluate the Potential of Montelukast to Prevent the Development of Nasal Symptomatology During Natural Viral Upper Respiratory Infections"; September 15-16, 2005, Chicago, IL.
348. Pediatric Head to Toe: Lecturer: "Asthma & School Sports: What's New?" September 17, 2005, Pittsburgh, PA.
349. Respiratory Specialty and Hospital Representatives Meeting: Lecturer; September 29, 2005, Los Angeles, CA.
350. 2005 American Academy of Pediatrics National Conference (Symposium): Lecturer: "Deciphering the Clues: Detailing the Environment, Comorbid, and Lifestyle Factors that Influence the Course of Pediatric Asthma"; October 8, 2005, Washington, DC.
351. Grand Rounds, St. Luke's Hospital: Lecturer: "Current Trends in Asthma Treatment"; October 25, 2005, Bethlehem, PA.
352. CHEST 2005: Panel Discussion/Participant: "Early Intervention and Prevention Strategies for Optimal Outcomes in Pediatric Asthma Patients"; October 31, 2005, Montreal, Canada.

353. Advisory Board Meeting: Participant: "Optimizing Key Opinion Leader Investigators in Clinical Trials"; November 4, 2005, East Hanover, NJ.
354. Elidel Speaker Update: Participant; January 27-28, 2006, Marco Island, FL.
355. Advances in 5-Lipoxygenase Science Advisory Board Meeting: Participant; February 2-4, 2006 Henderson, NV.
366. Core Asthma Group Advisory Board Meeting: Participant; February 10-11, 2006, Phoenix, AZ.
367. Advisory Board Meeting: Participant; March 1-2, 2006, Miami FL.
368. AAAAI 2006 Annual Meeting: Participant (posters); March 3-7, 2006, Miami, FL.
369. 2nd Asian Pediatric MetaForum: Expert panel; April 8, 2006, Hong Kong Academy of Medicine, Hong Kong.
370. Latin American Speakers' Forum; Inflammation in the Human Airway: Biology, Diagnosis and Treatment: Participant/Lecturer: "The Approach to the Management of Asthma in Kids"; April 28-29, 2006, Sao Paulo, Brazil.
371. Washington Hospital Scientific Day Conference; Lecturer: "Pediatric Asthma"; May 12, 2006, Southpointe, PA.
372. Pediatric Grand Rounds: University of Massachusetts Medical School; Lecturer: Topic: Otitis Media; May 19, 2006, Worcester, MA.
373. National Respiratory Experts Forum; Participant; June 15-17, 2006, Chicago, IL.
374. CIPP VII 7th International Congress on Pediatric Pulmonology: Poster presentation; July 8-11, 2006, Montreal Canada.
375. Pediatric Respiratory Advisory Board Meeting: Participant, August 3-5, 2006, Denver, CO.
376. Taiwan Pediatric Allergic Society: Lecturer :Topic: The Management of Young Wheezy Kids, August 21, 2006 Taichung, Taiwan.
377. European Respiratory Society (ERS) Annual Congress 2006: Poster presentation; September 2-6, 2006, Munich, Germany.
378. Asthma Stakeholder Meeting: Participant; October 4, 2006, Harrisburg, PA.
379. XVIII World Congress of Asthma-Interasma: Participant; October 13-17, 2006, Guadalajara, Jalisco, Mexico.
380. MSD Europe, Middle East and Africa (EMEA) Pediatric Speakers' Forum: Chairman & Speaker: Topic: The Spectrum of Childhood Asthma: A Call for More Treatment Options; Lecture: Different Kids-Different Needs; October 19-21, 2006, Prague, Czech Republic.
381. Nemaclin Asthma Conference: Moderator & Speaker: Inhaled Corticosteroids/Leukotriene Receptor Antagonists Safety and Efficacy, Including Airway Restructuring; November 4-5, 2006, Nemaclin Woodlands Conference Center, Farmington, PA.
382. Allergy, Asthma & Immunology Annual Scientific Meeting (ACAAI): Poster Presentations; November 9-15, 2006, Philadelphia, PA.
383. NICHD/NIAD Editorial Roundtable: Pediatric Asthma: Today's Management-Tomorrow's Potential: Lecturer: Adverse Events: The Current and Evolving Understanding of ICS and Growth Suppression; December 7- 8, 2006; Bethesda, MD.
384. Pediatric Respiratory Advisory Board Meeting: Participant; December 9, 2006; Dallas, TX.
385. MFF Advisory Board Meeting: Participant; December 15, 2006; Miami, FL.
386. Pre-Conference Symposium/Combined Meeting on Allergy, Asthma & Immunology: Lecturer; January 17-18, 2007; Puerto Vallarta, Mexico.
387. 2007 Respiratory Speakers Forum for Asthma: Participant; January 19-21, 2007; Atlanta, GA.
388. Pediatric Trial Design Meeting: Participant; January 26, 2007; Ft. Worth, Texas.
389. AAAAI 2007 Annual Meeting: Participant (posters/oral abstract); February 23-27, 2007; San Diego, CA.
390. Latin America Speakers' Forum: Chairman/Lecturer; March 8-10, 2007; Cartagena, Columbia.
391. DGP Kongress Symposium: Speaker; March 14-16, 2007; Mannheim, Germany.
392. 2007 National Allergist Advisory Board Meeting: Participant; March 16-18, 2007; Phoenix, AZ.
393. Asia Pacific Pediatric Speakers' Forum: Lecturer; March 23-25, 2007; Seoul, South Korea.
394. Multidisciplinary Advisory Board Meeting: Participant; June 15-16, 2007; Dallas, TX.
395. PAAA 2007 Annual Meeting: Lecturer; "Role of Viral URI's in the pathogenesis of upper airway disease"; "Safety and efficacy of controller therapies for asthma"; June 22-24, 2007; Hershey, PA.
396. International Pediatric Symposium; (Lecturer); June 26-27, 2007; Romania.
397. Pediatric Respiratory Advisory Board Meeting: Participant; July 12-14, 2007; Chicago, IL.
398. Symposium & Advisory Board Meeting: Participant, August 9-10, 2007; San Diego, CA.
399. Infant Wheezing Course: Universidade Federal de Sao Paulo: Lecturer; September 7, 2007; Sao Paulo, Brazil.
400. Nemaclin Asthma Conference: Program Director/Speaker: Safety and efficacy of Asthma therapeutics in the context of the new NAEPP guidelines; September 14-16, 2007, Nemaclin Woodlands Conference Center, Farmington, PA.
401. Advances in Respiratory Therapeutics Forum (ART FORUM): Speaker: Ciclesonide in the treatment of asthma-A focus on safety; October 5-7, 2007, Athens, Greece.
402. Pediatric Advisory Board Meeting: Participant, October 12-13, 2007; Washington, DC.
403. Scientific & Leadership Academy: Participant/Lecturer; October 18, 2007; Philadelphia, PA.

404. University of Pittsburgh Graduate School of Public Health: Capstone Course: Problem Solving in Public Health: Asthma: Lecturer; October 22, 2007; Pittsburgh, PA.
405. American College of Chest Physicians (CHEST) Annual Meeting: Poster presentation; October 20-25, 2007; Chicago, IL.
406. Speaker Lecture Series: Lecturer; Topic: EACCI/AAAAI Pediatric Guidelines; October 26-30, 2007; Jeddah, Saudi Arabia.
407. American College of Asthma, Allergy & Immunology (ACAAI): Poster presentations; November 9-14, 2007; Dallas, TX.
408. Allergic Rhinitis Expert Meeting: Participant: December 17, 2007; Paris, France.
409. ICS Growth Roundtable: Participant: January 11-12, 2008, Dallas, TX.
410. Gulf Scientific Lecture Program: Lecturer; January 21-24, 2008; United Arab Emirates.
411. Asthma Specialists Asthma Advisory Board Meeting: Participant; January 31-February 1, 2008; Braselton, GA.
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COMMUNITY SERVICE

UNIVERSITY AND MEDICAL SCHOOL

Animal Research and Care Committee	Children's Hospital
Clinical Laboratory Use Committee	Children's Hospital
Human Rights Committee	Children's Hospital
Resident Education Committee	Children's Hospital
General Clinical Research Center	Children's Hospital
Committee to Fund Interest Section Research Projects	American Academy of Allergy and Immunology
Chairman, Rhinitis Committee	American Academy of Allergy and Immunology

COMMUNITY ACTIVITIES

Active staff	Allegheny General Hospital
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CONTINUING MEDICAL EDUCATION (CME) ACTIVITIES

Attend annual meetings of the American Academy of Allergy and Immunology and the Society for Pediatric Research.
Participate in CME activities offered by other institutions and learning groups.